

VERSION WITH MARKINGS TO SHOW CHANGES

3. The method for screening according to [any one of] claim[s] 1 [or 2], wherein the environmental stress is one or more of chemical substance stress, high temperature stress, low temperature stress, freezing stress, drought stress, ozone stress, ultraviolet stress, radiation stress, or osmotic pressure stress.

5. The method for screening according to [any one of] claim[s] 1 [to 4], wherein the host cell is a coliform.

7. The method for screening according to [any one of] claim[s] 1 [to 6], wherein an environmental condition where host cells cannot substantially grow is 350mM or more of salt concentration.

8. DNA encoding proteins having the activity of improving environmental stress tolerance wherein the DNA is obtained according to [any one of] claim[s] 1 [to 7].

11. DNA encoding proteins having the activity of improving the environmental stress tolerance according to [any one of] claim[s] 8 [to 10], wherein the proteins having the activity of improving the environmental stress tolerance are derived from plants.

67. A method for improving environmental stress tolerance, wherein the DNA according to [any one of] claim[s] 8 [to 66] is used.

107. An antibody specifically bound to the protein according to [any one of] claim[s] 70 [to 72].

108. An antibody specifically bound to the protein according to [any one of] claim[s] 73 [to 104].

109. An antibody specifically bound to the protein according to [any one of] claim[s] 105 [or 106].

110. The antibody according to [any one of] claim[s] 107 [to 109], wherein the antibody is a monoclonal antibody.

111. A vector comprising the DNA encoding proteins having the activity of improving tolerance against environmental stresses according to [any one of] claim[s] 8 [to 12].

112. A vector comprising the DNA according to [any one of] claim[s] 13 [to 15].

113. A vector comprising the DNA according to [any one of] claim[s] 16 [to 63].

114. A vector comprising the DNA according to [any one of] claim[s] 64 [to 66].

115. A transformed cell obtained by introducing the vector according to [any one of] claim[s] 111 [to 114].

117. A method for producing proteins having the activity of improving environmental stress tolerance, wherein the transformed cells according to [either of] claim[s] 115 [or 116] is cultured, and recombinant proteins are collected from the transformed cells or the supernatant of the cultured liquid.

118. A transgenic plant obtained by introducing the DNA according to [any one of] claim[s] 8 [to 12] encoding proteins having the activity of improving environmental stress tolerance, and by dividing, proliferating and redifferentiating the plant cell.

119. A transgenic plant obtained by introducing the DNA according to [any one of] claim[s] 13 [to 15] encoding proteins having the activity of improving environmental stress tolerance, and by dividing, proliferating and redifferentiating the plant cell.

120. A transgenic plant obtained by introducing the DNA according to [any one of] claim[s] 16 [to 63] encoding proteins having the activity of improving environmental stress tolerance, and by dividing, proliferating and redifferentiating the plant cell.

121. A transgenic plant obtained by introducing the DNA according to [any one of] claim[s] 64 [to 66] encoding proteins having the activity of improving environmental stress tolerance, and by dividing, proliferating and redifferentiating the plant cell.

122. A transgenic plant obtained by introducing the vector according to [any one of] claim[s] 111 [to 114], and by dividing, proliferating and redifferentiating the plant cell.

123. The transgenic plant according to [any one of] claim[s] 118 [to 122], wherein the environmental stress is one or more of chemical substance stress, high temperature stress, low temperature stress, freezing stress, drought stress, ozone stress, ultraviolet stress, radiation stress, and/or osmotic pressure stress.

125. A material for breeding derived from the transgenic plant according to [any one of] claim[s] 118 [to 122].